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APPLICATION NO. :	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/548,637	04/13/2000	John R Koza	50291.P009	6771
759	00 12/23/2002			
Michael J Mallie Blakely Sokoloff Taylor & Zafman LLP 12400 Wilshire Boulevard 7th Floor			EXAMINER	
			BOOKER, KELVIN E	
			ART UNIT	PAPER NUMBER
Los Angeles, CA 90025			2121	
			DATE MAILED: 12/23/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

7	Application No.	Applicant(s)				
	09/548,637	KOZA ET AL.				
• Office Action Summary	Examiner	Art Unit				
	Kelvin E Booker	2121				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM						
THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period vortice is reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a rep of within the statutory minimum of thirty will apply and will expire SIX (6) MONTI of cause the application to become ABA	ly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on	·					
2a) This action is FINAL . 2b) ⊠ Th	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-22 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-22</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or Application Papers	r election requirement.					
··· _	r					
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b D objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
Copies of the certified copies of the prior application from the International Bu See the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	_				
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language pro						
Attachment(s)	. ,,					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inf	ummary (PTO-413) Paper No(s) formal Patent Application (PTO-152) il Office Action .				

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claims 1-21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim one provides for the use of selecting candidate entities which (1) "...satisfies the design requirement to a greater degree than another..."; and (2) "...avoids prior art to a lesser degree than another...", but, since the claim does not set forth the steps involved in the method/process, it is unclear what method/process applicant is intending to encompass. A claim is indefinite where it merely recites a use without any active, positive steps delimiting how this use is actually practiced.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

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4. Claims 1-21 are rejected under 35 U.S.C. 101 because the invention as disclosed in claim one is directed to non-statutory subject matter. While the claims are in the technological arts, they are not limited to practical applications in the technological arts.

Specifically, the claim is a series of steps to be performed on a computer, but the ideas are disclosed abstractly from any particular practical application. In the aforementioned claim one, the mere process of invoking iterations is based upon selecting a candidate entity through an unclear and indefinite method of satisfying a design requirement which is "to a greater degree than another candidate" and avoiding those candidates with characteristics "to a lesser degree than another candidate".

To constitutionally interpret the word "process", the Supreme Court has held that: "***A process is a mode of treatment of certain materials to produce a given result. It is an act, or a series of acts, performed upon the subject matter to be transformed and reduced to a different state or thing. ***The Process requires that certain things should be done with certain substances, and in a certain order; but the tools to be used in doing this may be a secondary consequence."(emphasis added) Diamond, Commission of Patents and Trademarks v. Diehr and Lutton, 209 USPQ 1, 6 (1981) quoting Cochrane v. Deener, 94 U.S. 780, 787-788 (1876).

This Constitutional interpretation of the word "process" is a long-standing one that the Supreme Court requires to be applied in interpreting 35 USC 101. Diamond v. Diehr at 6. Consequently, the us of that interpretation is Constitutionally required when we interpret the Federal Circuit's standard that a "new and useful process" is one that produces a useful, concrete, and tangible result". Cf. State Street Bank & Trust Co. v. Signature Financial Group, Inc., 47 USPQ2d 1596, 1600-1601 (Fed. Cir. 1998).

Applicant discloses no "certain substances" that have been "transformed or reduced" in that applicant's claims disclose no specific computer-readable medium, no manipulation of specific data representing physical objects or activities (pre-computer activity), nor do they disclose any specific independent physical acts being performed by the invention (post-computer activity). The claims merely manipulate abstract ideas in general without limitation to a practical application where "certain substances" are transformed or reduced.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claim 22 is rejected under 35 U.S.C. 102(b) as being anticipated by Scepanovic et al., U.S. Patent No. 5,796,625 [hereafter Scepanovic].

As per claim 22, Scepanovic teach of an iterative computer-implemented process for creating an entity that approximately satisfies a design requirement that includes technical requirements and dissimilarity to preexisting technology, the process invoking iterations, each iteration comprising:

- A. producing a structure (see column 2, lines 10-25: producing a VLSI design structure);
- B. determining behavior and characteristics of the structure (see column 2, lines 26-42: iterative simulated annealing is used to over-come local optima);

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C. comparing the structure to preexisting technology (see column 2, lines 13-25: constantly comparing the structure of optimizing characteristics); and

D. determining fitness of the structure by combining compliance with the technical requirements and dissimilarity to preexisting technology (see column 2, lines 15-54: using SA to facilitate optimizing the design respective of existing design characteristics).

Conclusion

7. An inquiry concerning this communication or earlier communications from the examiner should be directed to Kelvin Booker whose telephone number is (703) 308-4088. The examiner can normally be reached on Monday-Friday from 7:00 AM-5:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee, can be reached on (703) 305-8498. The fax number for the organization where this application or proceeding is assigned is (703) 746-7239.

An inquiry of a general nature or relating to the status of this application proceeding should be directed to the receptionist whose telephone number is (703) 305-3900.

K.E.B.

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JOHN A. FOLLANSBEE PRIMARY EXAMINER

December 15, 2002